Contents of Volume 17

Volume 17 Number 1 January–February 1995

Use of artificial intelligence in analytical systems for the clinical laboratory
J. F. Place, A. Truchaud, K. Ozawa, H. Pardue and P. Schnipelsky 1

Automatic calibration for on-line process monitoring in continuous-flow systems
M. Agudo, A. Ríos, M. Valcárcel and A. Danet 17

A PC-controlled module system for automatic sample preparation and analysis
Ö. Einarsson and L. Hansén 21

A fully automated flow injection atomic absorption system for the determination of copper traces in waters with on-line pre-concentration in an ion-exchange column
J. L. Burguera, M. Burguera, P. Carrero, J. Marcano, C. Rivas and M. R. Brunetto 25

Abstracts of papers presented at Flow Analysis VI: Toledo, Spain (8–11 June 1994) 31

Volume 17 Number 2 March–April 1995

Introduction: Laboratory automation at Schering-Plough—increased productivity today and foundation for the future
F. H. Zenie 41

Automation in the pharmaceutical analysis laboratory: a centralized/ decentralized approach
S. Scypinski, L. Nelson and T. Sadlowski 45

Moving up the automation S-curve: The role of the laboratory automation support function in successful pharmaceutical R&D
R. J. Maddux 49

The trials and tribulations of a robotic screening core
J. Babiak, B. Lucotch, A. Russo, L. Heydt, S. Williams and R. McCaully 53

Managing laboratory automation in a changing pharmaceutical industry
M. L. Rutherford 57

Atomic flourescence determination of mercury in fresh water ecosystems
R. Knox, W. R. Kammin and D. Thomson 63

Evaluation of an automatic HPLC analyser for thalassemia and haemoglobin variants screening
R. Galanello, S. Barella, D. Gasperini, L. Perseu, E. Paglietti, C. Sollaino, L. Paderi, M. G. Pirroni, L. Maccioni and A. Mosca 71

A Hadamard transform UV absorption detection for high performance liquic chromatography. Part I. Preiminary experiments
J. G. Brayan, D. J. Malcolme-Lawes, C. D. Mew and S. Xie 77

Volume 17 Number 3 May–June 1995

Managing laboratory automation
T. J. Saboe 83

Reality in the 1990s and beyond—more with less
P. A. Lane 89

The human side of automation: experience in clinical pharmacology
J. R. Powell 95

Centrifugation and capillarity integrated into a multiple analyte whole blood analyser
C. T. Schembri, T. L. Burd, A. R. Kopf-Sill, L. R. Shea and B. Braynin 99

Determination of total carbon dioxide in beer and soft drinks by gas diffusion and flow injection analysis
E. Ljunggren and B. Karlberg 105

Automated synthesis of radiopharmaceuticals for positron emission tomography: an apparatus for [1-^{11}C] labeled carboxylic acid
K. Yajima, H. Yamazaki, H. Kawashima, S. Ino, N. Hayashi and Y. Miyake 109

Simultaneous spectrophotometric determination of copper(II), lead(II) and cadmium(II)
S. Ren and L. Gao 115

New products 119

Volume 17 Number 4 July–August 1995

Abstracts of papers presented at the 1995 Pittsburgh Conference 123

Integration of laboratory and process testing data
M. Tyszkiewicz 161

The Automatic Methods Group *Newsletter* 163

Volume 17 Number 5 September–October 1995

A new approach to mixing techniques for enhanced performance in automated sample preparation
F. Qian, E. Vérette and A. El-Sayed 169

The speciation of copper(II)/ethylenediamine/oxalate system by evolving factor analysis
S. Ren and L. Gao 173

The electronic NOSE and its application to the manufacture of food products
D. Hodgins and D. Simmonds 179

Upgrade of a semi-automatic flow injection analysis system to a fully automatic one by means of a resident program
M. I. Prodromidis, A. B. Tsibiris and M. I. Karayannis 187

LASF 191

The Automatic Methods Group *Newsletter* 195

New products 201

Volume 17 Number 6 November–December 1995

Automation of flow injection gas diffusion–ion chromatography for the nanomolar determination of methylamines and ammonia in seawater and atmospheric samples
S. W. Gibb, J. W. Wood, R. Fauzi and C. Mantoura 205

Evaluation of a random access analyser: BM/Hitachi 911
T. Kanluan, S. Tangvarasittichai and O. Tangvarasittichai 213

Validation of an ion selective electrode system for the analysis of serum fluoride ion
E. B. Duly, S. R. Luney, T. R. Trinick, J. M. Murray and J. E. A. Comer 219

New products 225

Index of Authors 229